

# Michael White

<http://github.com/mwhite>

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## EMPLOYMENT

### **Dimagi** (Cambridge, MA)

*Software Engineer*, September 2012 - December 2013

*Contractor*, January - July 2014

- ▶ Contributed full stack changes to a large Django application for managing health data, in a fast-paced collaborative environment
- ▶ Maintained a legacy 10KLOC JavaScript XForm designer:
  - \* Added new features, fixed bugs, addressed major usability issues, and improved performance
  - \* Improved collaborative development speed by introducing a module loader and a plugin system for modularity, setting up automated testing infrastructure and writing initial tests, and incrementally refactoring most of the codebase to be more maintainable
- ▶ Wrote custom reports for clients using CouchDB
- ▶ Proposed full code review, technical onboarding, and other process changes that helped the team scale

### **GetchaBooks** (Medford, MA)

*Co-Founder and Backend Architect*, 2010 - 2012

- ▶ Created a site that let college students select their courses and find the best way to buy their required books online, named one of *Inc. Magazine's* Coolest College Startups of 2011
- ▶ Wrote the backend using PHP, Propel ORM, and MySQL
- ▶ Wrote scrapers for college bookstore chain websites as part of a generic scraping system with batch and on-demand scraping support
- ▶ Designed a multi-book price comparison algorithm that accounts for variable shipping costs

### **AIFB, Karlsruhe Institute of Technology** (Remote)

*Student Research Assistant*, June - August 2010

- ▶ Designed and implemented a Semantic MediaWiki extension that used existing structured data to interpret plain-text queries as structured queries, and added faceted browsing to the built-in search results interface, using MySQL, PHP, and jQuery

## EDUCATION

### **Tufts University** (Medford, MA)

B.S. in Computer Science, May 2012

## SKILLS

Modular application development, API design, data architecture

Python (Django, Flask, SQLAlchemy), JavaScript (jQuery, Knockout, React), PHP, C, SQL, HTML, CSS, git, Linux

Familiar with German and Spanish

## PROJECTS

### **resume**

<http://github.com/mwhite/resume>

A Markdown to PDF résumé generator, via  $\text{\LaTeX}$ , using Pandoc.

### **JSONAlchemy**

<http://github.com/mwhite/JSONAlchemy>

A proof-of-concept tool for taking multi-tenant data stored in a Postgres JSON column, but with known implicit schemas, and performantly exposing it as standard SQL tables, without an ETL step, using Postgres views and partial indexes. Built with SQLAlchemy.

## INTERESTS

History, genealogy, music, linguistics

## REFERENCES

Available on request